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Application No.	Applicant(s)	
10/626,558	KOBAYASHI ET AL.	
Examiner	Art Unit	
Blaise L Mouttet	2853	

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6. ☐ Interview S Paper No. 8), 7. ☐ Examiner's 8. ☑ Examiner's	Summary (PTO-413), /Mail Date s Amendment/Comment s Statement of Reasons for A	
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## Additional Prior Art

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Jinnai et al. US 4,313,123 discloses an electric field generator (9) for ejecting ink drops and an ink collector (22) that collects deflected ink droplets. While this structure is common to continuous type inkjet recording devices it is typically used to deflect ink drops not to be placed on a recording media from ink drops intended to be printed on the recording media during continuous drop ejection (as opposed to the selective ejection used in the drop on demand type of inkjet recording devices or a deflection between refresh drops and print (i.e. recording) drops.)

Watanabe US 4,866,462 discloses a drop on demand inkjet recording device that changes the maximum frequency of operation based upon the type of data to be printed.

Lund et al. US 5,659,342 discloses an inkjet recording device which interleaves refresh ink ejection with printing ink ejection by ejecting the refresh droplets on the page.

Morita et al. US 6,033,050 discloses changing a refresh ejection frequency in an inkjet recording device according to ambient conditions (humidity, temperature).

## Related Art

Kobayashi et al. US 6,679,586 is a related patent issued to the inventive entity of the current application (i.e. not by another) which has been considered in terms of

double patenting. The "changing unit" and related limitations claimed in the current application are not claimed in the '586 patent and are not found to be obvious over the claims of the '586 patent.

## **REASONS FOR ALLOWANCE**

As indicated by the noted prior art, portions of applicant's claim limitations are found in the prior art. The electric field generator and ink collector structure is associated with continuous type ink ejectors to deflect non-print ink drops from printing ink drops. The prior art teaches frequency changing within drop on demand (i.e. selective ejection) ink ejectors. However a combination of these limitations resulting in the claimed limitations is not obvious to a person of ordinary skill in the art at the time of the invention given the prior art of record at least because 1) there is no motivation to combine the different inkjet types (continuous vs. drop on demand) so as to result in the present claims, 2) while frequency changing is known to the art for a variety of reasons such as to compensate for humidity/temperature changes or depending on the type of data to be printed the frequency changing units do not generate a refresh ejection signal during a frequency changing period wherein a refresh ink droplet is ejected in response to the refresh ejection signal which is deflected by an electric field generator into an ink collector.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably Application/Control Number: 10/626,558

Art Unit: 2853

accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

## **Contact Information**

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Examiner Blaise Mouttet who may be reached at telephone number (571) 272-2150. The examiner can normally be reached on Monday-Friday from 8:30 a.m. to 5:00 p.m.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Stephen Meier, Art Unit 2853, can be reached at (571) 272-2149. The fax phone number for the organization where this application or proceeding is assigned is (703) 872-9306.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 308-0956.

Blaise Mouttet February 3, 2005

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